



2016 Major Automated Information System Annual Report



Global Combat Support System - Joint Increment 8 (GCSS-J Inc 8)

Defense Acquisition Management
Information Retrieval
(DAMIR)

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Common Acronyms and Abbreviations for MAIS Programs

Acq O&M - Acquisition-Related Operations and Maintenance
ADM - Acquisition Decision Memorandum
AoA - Analysis of Alternatives
ATO - Authority To Operate
APB - Acquisition Program Baseline
BY - Base Year
CAE - Component Acquisition Executive
CDD - Capability Development Document
CPD - Capability Production Document
DAE - Defense Acquisition Executive
DoD - Department of Defense
DoDAF - DoD Architecture Framework
FD - Full Deployment
FDD - Full Deployment Decision
FY - Fiscal Year
IA - Information Assurance
IATO - Interim Authority to Operate
ICD - Initial Capability Document
IEA - Information Enterprise Architecture
IOC - Initial Operational Capability
IP - Internet Protocol
IT - Information Technology
KPP - Key Performance Parameter
\$M - Millions of Dollars
MAIS - Major Automated Information System
MAIS OE - MAIS Original Estimate
MAR – MAIS Annual Report
MDA - Milestone Decision Authority
MDD - Materiel Development Decision
MILCON - Military Construction
MS - Milestone
N/A - Not Applicable
O&S - Operating and Support
OSD - Office of the Secretary of Defense
PB - President's Budget
RDT&E - Research, Development, Test, and Evaluation
SAE - Service Acquisition Executive
TBD - To Be Determined
TY - Then Year
U.S.C- United States Code
USD(AT&L) - Under Secretary of Defense for Acquisition, Technology, & Logistics

Program Information

Program Name

Global Combat Support System - Joint Increment 8 (GCSS-J Inc 8)

DoD Component

DoD

The acquiring DoD Component is the Defense Information Systems Agency.

Responsible Office

Program Manager

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References

MAIS Original Estimate

March 18, 2014

Approved APB

Component Acquisition Executive (CAE) Approved Acquisition Program Baseline (APB) dated March 7, 2014

Program Description

The Global Combat Support System-Joint (GCSS-J) is a key enabler for achieving Focused Logistics, ensuring the right personnel, equipment, supplies, and support are in the right place, at the right time, and in the right quantities across the full spectrum of military operations. GCSS-J gathers data from the authoritative data sources to provide a fused, integrated, near real-time, multidimensional view of combat support and combat service support across joint capability areas to provide situational awareness of the battlespace and logistics pipeline (e.g., Supply, Deployment and Distribution, Engineering, etc.).

The Director for Logistics, Joint Staff J-4 (DJ4), the functional sponsor, identified GCSS-J as the System of Record for Logistics and branded the application a logistics “One Stop Shop.” GCSS-J delivers accurate, timely, and relevant information to the joint logistics warfighter; enables asset visibility from disparate authoritative data sources to provide the warfighter an integrated picture of the battlespace; operates in a web-centric / net-centric environment to provide information to authorized users regardless of geographic location; and combines logistics information with operations and intelligence to provide the joint warfighter the ability to plan, execute, and control logistics operations.

The number one priority of the DJ4 is to provide the combatant commands (CCMDs) the ability to tailor their data and display results graphically on a map, which GCSS-J does. This provides each CCMD access to the same data, and allows the CCMD to customize the view to meet their individual requirements. The system also provides the ability to request data and display it in near real time. The DJ4 feels strongly that it is vital that the investment in GCSS-J continue as it provides a viable, cutting edge capability to the warfighter.

Increment 8 will use the same agile development model, infrastructure, and acquisition processes that were successfully established in Increment 7. The agile model is based on Joint Staff validated, approved, and prioritized functional requirements to meet Combatant Command 129 Requirements Document. These requirements are identified for specific releases which have established cost / schedule / performance parameters approved by the Milestone Decision Authority.

Business Case

Business Case Analysis, including the Analysis of Alternatives: The operational capabilities for GCSS-J are derived from several sources, including the GCSS-J Initial Capabilities Document (dated June 2004) and the Combatant Command-129 Requirements document. When a new GCSS-J increment is initiated, the list of requirements contained in these sources is re-validated, and the Director for Logistics, Joint Staff J-4 (DJ4), in coordination with the Planners' Board which consists of 1-Star / SES level representatives from the OSD primary staff and combatant commands, prioritize the requirements and the top-rated are then developed and deployed to the joint logistics warfighter. Based on the DJ4 direction, the prioritization for Increment 8 is as follows:

- Supply Enhancements
- Operational Contract Support
- Equipment Availability
- Joint Logistics Adaptive Planning
- Fleet Management
- Maintenance Management
- Mortuary Services Management
- Medical Readiness
- Food Services Management
- Logistics Services Management
- Enterprise-Wide Visibility

An Economic Analysis (EA) identified and evaluated the economic viability of the various alternatives to satisfy mission requirements. The EA was tightly coupled with the approved Cost Analysis Requirements Description (CARD); both documents were reviewed and approved by the DISA Office of the Chief Financial Executive in preparation for the Increment 8 Milestone B/C Decision Review. The EA included a life cycle cost estimate; a life cycle benefits estimate; as well as a risk-adjusted return on investment calculation. The EA, with supporting documentation from the CARD, assessed the costs and benefits of the alternatives which resulted in a recommended alternative being approved by at the Milestone B/C Decision Review on March 5, 2014, which resulted in a favorable Acquisition Decision Memorandum and an approved Acquisition Program Baseline on March 7, 2014.

Firm, Fixed-Price Feasibility: The determination of the software development and integration contract type was based on cost and technical risk associated with satisfying the requirement. The Milestone Decision Authority approved a hybrid contract type (Firm Fixed-Price and Cost-Plus Fixed Fee) contract because development tasks were sufficiently complex and technically challenging; therefore, it was impossible to precisely estimate the cost of satisfying the requirements, and it was not practicable to reduce cost and technical risk to a level that would permit the use of a fixed-price contract alone.

Independent Cost Estimate: The program has not experienced a Critical Change which would induce the independent cost estimate required by 10 U.S.C. 2334(a)(6).

Certification of Business Case Alignment; Explanation: I certify that all technical and business requirements have been reviewed and validated to ensure alignment with the business case. This certification is based on my review of the GCSS-J Initial Capabilities Document, the Combatant Command 129 Requirements document, the DJ4 memo establishing priorities for Increment 8, the EA, and the Life Cycle Cost Estimate and recommendations from the DISA Acquisition Review Board.

Business Case Certification:

Name: Mr. Alfred A. Schenck
 Organization: Defense Information Systems Agency for GCSS-J Inc 8
 CAC Subject: CN=SCHENCK.ALFRED.A.1057426639,OU=DISA,OU=PKI,OU=DoD,O=U.S. Government,C=US
 Date: 4/8/2014 02:40 PM

Business Case Changes

There has been no significant change to the Business Case since it was last certified.

Program Status

Annual Report: The program is substantially on track to remain within the schedule, cost, and performance thresholds identified in the Original Estimate; there have been no Significant or Critical Changes (as defined by 10 U.S.C. Chapter 144A) reported since the previous MAIS Annual Report to Congress.

The MDA approved the initial release, v8.0, for fielding on February 12, 2015. The current release for Increment 8 is v8.0.1 which was approved by the MDA in an ADM dated August 20, 2015.

Schedule

Schedule Events		
Events	Original Estimate Objective	Current Estimate (Or Actual)
Milestone B ¹	Mar 2014	Mar 2014
Milestone C ¹	Mar 2014	Mar 2014
Increment 8 FDD	Dec 2018	Dec 2018
Increment 8 FD	TBD	TBD

Memo

1/ The 5-year clock begins at the Milestone B/C Review.

Performance

Performance Characteristics		
Original Estimate Objective/Threshold		Current Estimate (Or Actual)
Net-Ready / Support Net-Centric Operations: The capability, system, and/or service must support Net-Centric military operations. The capability, system, and/or service must be able to enter and be managed in the network, and exchange data in a secure manner to enhance mission effectiveness. The capability, system, and/or service must continuously provide survivable, interoperable, secure, and operationally effective information exchanges to enable a Net-Centric military capability.		
100% of interfaces; services; policy enforcement controls; and data correctness, availability and processing requirements in the Joint integrated architecture. The capability, system, and/or service must fully support execution of joint critical operational activities and information exchanges identified in the DoD Enterprise Architecture and solution architectures based on integrated DoDAF content, and must satisfy the technical requirements for transition to Net-Centric military operations to include: 1) Solution architecture products compliant with DoD Enterprise Architecture based on integrated DoDAF content, including specified operationally effective information exchanges 2) Compliant with Net -Centric Data Strategy and Net-Centric Services Strategy, and the principles and rules identified in the DoD IEA, excepting tactical and non-IP communications 3) Compliant with GIG* Technical Guidance to include IT Standards identified in the TV-1 and implementation guidance of GESPs necessary to meet all operational requirements specified in the DoD Enterprise Architecture and solution architecture views 4) Information assurance requirements including availability, integrity, authentication, confidentiality, and non-repudiation, and issuance of an IATO or ATO by the DAA, and 5) Supportability requirements to include SAASM, Spectrum and JTRS requirements.	100% of interfaces; services; policy enforcement controls; and data correctness, availability and processing requirements designated as enterpriselevel or critical in the Joint integrated architecture. The capability, system, and/or service must fully support execution of joint critical operational activities and information exchanges identified in the DoD Enterprise Architecture and solution architectures based on integrated DoDAF content, and must satisfy the technical requirements for transition to Net-Centric military operations to include: 1) Solution architecture products compliant with DoD Enterprise Architecture based on integrated DoDAF content, including specified operationally effective information exchanges 2) Compliant with Net -Centric Data Strategy and Net-Centric Services Strategy, and the principles and rules identified in the DoD IEA, excepting tactical and non-IP communications 3) Compliant with GIG* Technical Guidance to include IT Standards identified in the TV-1 and implementation guidance of GESPs necessary to meet all operational requirements specified in the DoD Enterprise Architecture and solution architecture views 4) Information assurance requirements including availability, integrity, authentication, confidentiality, and non-repudiation, and issuance of an IATO or ATO by the DAA, and 5) Supportability requirements to include SAASM, Spectrum and JTRS requirements.	Met Threshold
Responsiveness (Asset Visibility): Provide asset visibility to the user in a responsive manner upon data / information queries.		
Once query is complete, provide user with anticipated run time; single/multiple queries must be accomplished in less than 30 seconds, 95% of the time.	Once query is complete, provide user with anticipated run time; single/multiple queries must be accomplished in less than 60 seconds, 95% of the time.	Met Threshold
Responsiveness (Joint Decision Support Tools): Provide collaborative planning, course of action analysis /		

development providing actionable information.

Once query is complete, provide user with anticipated run time; portray actionable information within 30 seconds, 95% of the time.

Once query is complete, provide user with anticipated run time; portray actionable information within 120 seconds, 95% of the time.

Met
Threshold

Relevancy / Currency: Provide current and accurate information from the authoritative source.

Provide 100% accurate data from authoritative source; data is current as determined by established business processes.

Provide 95% accurate data from authoritative source; data is current as determined by established business processes.

Met
Threshold

Security: Ensure data security and integrity by complying with all applicable DoD Security regulations and directives for sensitive but unclassified, unclassified, and classified data and information.

100% of standard.

100% of standard.

Met
Threshold

Availability: Provide independent user workstation access and connectivity to any authorized user on any box (within security parameters) at any location. Percentage of the time capability is available for use, excluding scheduled downtime.

99% down to the JTF Headquarters level; business processes to determine tactical/forward deployed level, objective to be identified in the ICD annual review.

95% down to the JTF Headquarters level; business processes to determine tactical/forward deployed level, threshold to be identified in the ICD annual review.

Met
Threshold

Memo

CDD dated May 2008 and approved by the Joint Requirements Oversight Council

Acronyms and Abbreviations

CCMD - Combatant Command
 DAA - Designated Approval Authority
 DJ4 - Director for Logistics, Joint Staff J-4
 GESP - Global Information Grid Enterprise Profile
 GIG - Global Information Grid
 JTF - Joint Task Force
 JTRS - Joint Tactical Radio System
 SAASM - Selective Availability Anti-Spoofing Module
 TV - Technical View

Cost

GCSS-J Inc 8				
Appropriation Category	BY 2014 \$M		TY \$M	
	Original Estimate	Current Estimate Or Actual	Original Estimate	Current Estimate Or Actual
Acquisition Cost				
RDT&E	72.7	54.6	77.8	57.1
Procurement	0.0	0.0	0.0	0.0
MILCON	0.0	0.0	0.0	0.0
Acq O&M	58.1	58.9	61.8	62.1
Total Acquisition Cost	130.8	113.5	139.6	119.2
Operating and Support (O&S) Cost				
Total Operating and Support (O&S) Cost	25.7	25.7	28.2	28.4
Total Life-Cycle Cost				
Total Life-Cycle Cost	156.5	139.2	167.8	147.6

Cost Notes

1. This report and the Budget Year IT-1 Exhibit cover different time periods thus the costs will not match.
2. Then Year dollars are included for information purposes only; cost variances will be reported against Base Year dollars.
3. The O&S costs reflect all work performed during that phase, regardless of the type or source of funding.
4. Based on PB 2017, the RDT&E decrease results in a reduction in the number of GCSS-J development hours required to meet Joint Staff Logistics operational needs while continuing to meet current functional priorities of the Joint Logistics community, as documented by Joint Staff requirements.
5. Based on PB 2017, the O&M (both O&S and Acq O&M) increase will support the maintenance and sustainment of hardware and software necessary for the Program's move to Virtualization and the increased costs of current maintenance activities (i.e., operational support, information assurance vulnerability alerts, patches, and defect fixes) due to activities moving from development to sustainment.